
memorandum

DATE: April 13, 2017

REPLY TO

ATTN OF: Office of Basic Energy Sciences, SC-22

SUBJECT: DEPARTMENT OF ENERGY INDEPENDENT PROJECT REVIEW FOR THE NATIONAL SYNCHROTRON LIGHT SOURCE II EXPERIMENTAL TOOLS (NEXT) PROJECT

TO: Stephen Meador, Director, Office of Project Assessment, SC-28

I request that you organize and conduct an Office of Science Independent Project Review (IPR) of the NEXT project at the Brookhaven National Laboratory on May 31 – June 1, 2017, for the Office of Basic Energy Sciences. The purpose of this review is to determine whether the NEXT project has fulfilled the requirements for CD-4, “Project Completion” and if the project is ready to request CD-4 approval.

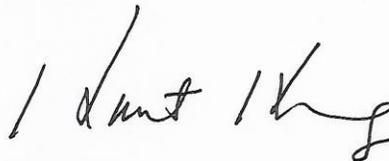
The performance baseline for NEXT (CD-2) was approved October 9, 2013, with a Total Project Cost of \$90M and a CD-4 date of September 30, 2017, along with authorization for Long Lead Procurements (CD-3A) in the amount of \$16M. CD-3, Start of Construction, was approved on July 7, 2014. As of the end of February 2017, the project is 99.3 percent complete. The project has contingency of \$0.778M based on an Estimate at Complete (EAC) of \$89.222M.

The objective of NEXT is to provide NSLS-II with a minimum of five “best-in-class” beamlines. This will enable exploration of the unique scientific opportunities offered by the NSLS-II facility beyond those provided by its initial beamlines.

In carrying out its charge, the review committee should respond to the following questions:

1. Project Scope: Has the project delivered all of the project scope as defined in the WBS dictionary? Have all threshold key performance parameters been achieved? If not, what remains to be delivered or demonstrated?
2. Cost and Schedule: Will the project’s remaining cost and schedule resources be sufficient to achieve CD-4? Are there sufficient cost resources to complete the administrative closeout?
3. Management: Has the project met all of the requirements for CD-4? Is the project ready to request CD-4 approval? If not, what remains? Specifically, is the draft project closeout report complete and are the lessons learned from the project to-date identified and documented?
4. Environment, Safety & Health and Quality Assurance (ES&H/QA): Has the ES&H/QA performance for the project met DOE expectations?
5. Recommendations: Are there any outstanding DOE review recommendations that require action prior to approving CD-4?

Philip F. Kraushaar, the NEXT Program Manager, will serve as the Office of Basic Energy Sciences point of contact for this review. I would appreciate receiving your committee's report within 60 days of the review's conclusion.



Harriet Kung
Associate Director of Science
for Basic Energy Sciences

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